

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A robust customizable computing system comprising:

a processing control unit having a non-peripheral based encasement and an electrical printed circuit board configuration that comprises multiple interconnected boards, wherein the non-peripheral based encasement comprises a main support chassis having a plurality of wall supports coupled to a plurality of junction centers, said plurality of junction centers comprising board receiving channels that are configured to receive at least a portion of ~~each~~ one or more of said multiple interconnected boards;

an external object; and

means for operably connecting said processing control unit to said external object, said processing control unit introducing intelligence into said external object and causing said external object to perform smart functions.

2. (Previously Presented) The robust customizable computer processing system of claim 1, wherein said processing control unit further comprises:

a dynamic back plane that provides support for connecting peripheral and other computing components directly to a system bus without requiring an interface, wherein said dynamic back plane is coupled to at least two of said plurality of junction centers;

means for enclosing said main support chassis and providing access to an interior portion of said non-peripheral based encasement;

one or more computer processing components disposed within said junction centers of said non-peripheral based encasement; and means for cooling said interior portion of said non-peripheral based encasement.

3. (Original) The robust customizable computing system of claim 1, wherein said means for operably connecting comprises means for physically coupling said processing control unit to said external object, such that said processing control unit functions as a load bearing component.

4. (Original) The robust customizable computing system of claim 1, further comprising at least one other processing control unit operably connected to said external object.

5. (Original) The robust customizable computing system of claim 1, wherein said processing control unit comprises a load bearing structure.

6. (Previously Presented) The robust customizable computing system of claim 1, wherein said means for operably connecting comprises a direct connection via a universal port formed in a dynamic back plane of said non-peripheral based encasement.

7. (Previously Presented) The robust customizable computing system of claim 1, wherein said means for operably connecting comprises a wired connection that connects to a port of said processing control unit.

8. (Original) The robust customizable computing system of claim 1, wherein said means for operably connecting comprises a wireless connection.

9. (Previously Presented) The robust customizable computing system of claim 1, wherein said means for operably connecting comprises means for engaging the external object.

10. (Previously Presented) The robust customizable computing system of claim 9, wherein said means for engaging an external object comprises a slide receiver formed on said processing control unit that functions to receive a matching insert located on the external object.

11. (Original) The robust customizable computing system of claim 1, wherein said external object is selected from the group consisting of any object, system, device, apparatus, component, structure, component of a structure, item of manufacture, and inanimate object.

12. (Original) The robust customizable computing system of claim 9, wherein said external object comprises a workstation computer having snap-on peripheral devices that operably connect to said processing control unit.

13. (Original) The robust customizable computing system of claim 1, wherein said external object comprises circuitry, such that said processing control unit operably connects to said circuitry.

14. (Previously Presented) The robust customizable computing system of claim 1, wherein said electrical printed circuit board configuration of said processing control unit is a tri-board.

15. (Currently Amended) A robust customizable computing system comprising:

an external object;

a processing control unit having a non-peripheral based encasement and an electrical printed circuit board configuration that comprises multiple interconnected boards, wherein the non-peripheral based encasement comprises a main support chassis having a plurality of wall supports coupled to a plurality of junction centers, said plurality of junction centers comprising board receiving channels that are configured to receive at least a portion of ~~each~~ one or more of said multiple interconnected boards, wherein one of said interconnected boards is directly and transversely coupled to another of said interconnected boards, and wherein the processing control unit is configured to physically support said external object or a component of said external object; and

means for operably connecting said processing control unit to said external object, said processing control unit introducing intelligence into said external object and causing said external object to perform smart functions.

16. (Currently Amended) A method for introducing intelligence into an external object and enabling smart functions therein, said method comprising:

obtaining an external object;

operably connecting a processing control unit to said external object, said processing control unit having a non-peripheral based encasement and an electrical printed circuit board configuration that comprises multiple interconnected boards, wherein the non-peripheral based encasement comprises a main support chassis having a plurality of wall supports coupled to a plurality of junction centers, said plurality of junction centers comprising board receiving channels;

using said board receiving channels to receive at least a portion of ~~each~~ one or more of said multiple interconnected boards; and

initiating one or more computing functions within said processing control unit to cause said external object to perform smart functions.

17. (Previously Presented) The method of claim 16, wherein said non-peripherals based encasement comprises:

one or more plates removably coupled to said main support chassis for providing access to an interior portion of said non-peripheral based encasement;

one or more processing components removably disposed within said non-peripheral based encasement; and

means for cooling said non-peripheral based encasement and dissipating heat to the surrounding ambient air.

18. (Previously Presented) The method of claim 17, wherein said encasement is substantially cubical in shape, such that said encasement further comprises:

first and second end plates removably coupled to said main support chassis and comprising a plurality of ventilation ports;

a dynamic back plane removably coupled to said main support chassis; and

said electrical printed circuit board configuration removably secured within said encasement module.

19 (Previously Presented) The method of claim 16, wherein said electrical printed circuit board configuration is a tri-board electrical printed circuit board configuration.

20. (Previously Presented) The method of claim 16, further comprising directly and transversely coupling one of said multiple interconnected boards with another of said multiple interconnected boards.